

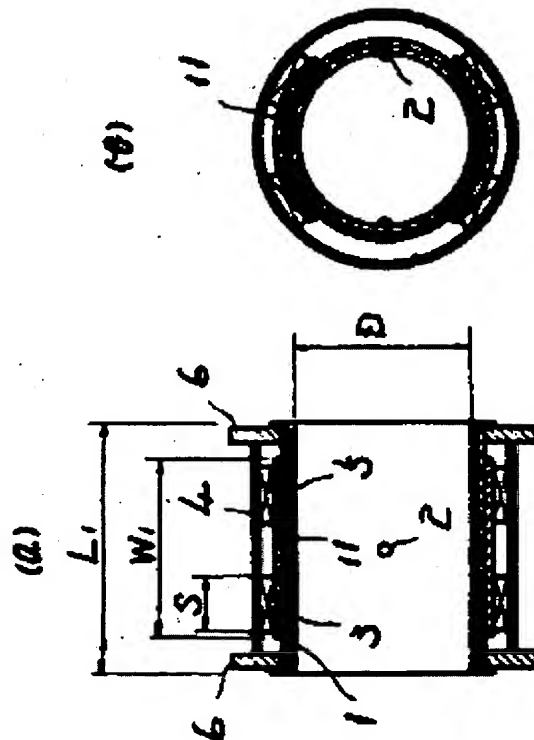
DETECTOR FOR ELECTROMAGNETIC FLOWMETER

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Abstract of JP58155315

PURPOSE: To make the total length (between planes) of the detector about 1D (diameter) even in the cases of medium and small calibers, by providing magnetic auxiliary cores along the outside of a measuring pipe, and providing exciting coils along the outside of the auxiliary cores. **CONSTITUTION:** A numeral 11 is the auxiliary cores in a cylindrical surface shape, which is made of a magnetic body such as, e.g. a silicon steel plate and has the internal diameter conforming to the outer diameter of the measuring pipe 1. A pair of the auxiliary cores 11 are arranged on the outside of the measuring pipe 1. The cores are arranged at the symmetrical positions with respect to the plane including the straight line connecting a pair of electrodes 2 and the axial line of the measuring pipe 1. A pair of saddle shaped exciting coils 5 are arranged along the outside of the auxiliary cores 11. Therefore the size of the exciting coils 5 is reduced and the total length (between the planes) L_1 of the detector can be reduced by about 1/2 the length of the conventional size. Since the exciting coils 5 are made small, the DC resistance of the coils is reduced.



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